

## Federal Acquisition Regulation

52.236-19

surveys. All surveys conducted by the Contractor shall be conducted under the direction of a representative of the Contracting Officer, unless the Contracting Officer waives this requirement in a specific instance.

(c) Promptly upon completing a survey, the Contractor shall furnish the originals of all field notes and all other records relating to the survey or to the layout of the work to the Contracting Officer, who shall use them as necessary to determine the amount of progress payments. The Contractor shall retain copies of all such material furnished to the Contracting Officer.

(End of clause)

*Alternate 1* (APR 1984). If it is determined at a level above that of the contracting officer that it is impracticable for Government personnel to perform the original and final surveys, and the Government wishes the contractor to perform these surveys, substitute the following paragraph (b) for paragraph (b) of the basic clause:

(b) The Contractor shall conduct the original and final surveys and surveys for any periods for which progress payments are requested. All these surveys shall be conducted under the direction of a representative of the Contracting Officer, unless the Contracting Officer waives this requirement in a specific instance. The Government shall make such computations as are necessary to determine the quantities of work performed or finally in place. The Contractor shall make the computations based on the surveys for any periods for which progress payments are requested.

### 52.236-17 Layout of Work.

As prescribed in 36.517, insert the following clause in solicitations and contracts when a fixed-price construction contract is contemplated and use of this clause is appropriate due to a need for accurate work layout and for siting verification during work performance:

#### LAYOUT OF WORK (APR 1984)

The Contractor shall lay out its work from Government-established base lines and bench marks indicated on the drawings, and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the Contracting Officer. The Con-

tractor shall also be responsible for maintaining and preserving all stakes and other marks established by the Contracting Officer until authorized to remove them. If such marks are destroyed by the Contractor or through its negligence before their removal is authorized, the Contracting Officer may replace them and deduct the expense of the replacement from any amounts due or to become due to the Contractor.

(End of clause)

### 52.236-18 Work Oversight in Cost-Reimbursement Construction Contracts.

As prescribed in 36.518, insert the following clause in solicitations and contracts when cost-reimbursement construction contracts are contemplated:

#### WORK OVERSIGHT IN COST-REIMBURSEMENT CONSTRUCTION CONTRACTS (APR 1984)

The extent and character of the work to be done by the Contractor shall be subject to the general supervision, direction, control, and approval of the Contracting Officer.

(End of clause)

### 52.236-19 Organization and Direction of the Work.

As prescribed in 36.519, insert the following clause in solicitations and contracts when a cost-reimbursement construction contract is contemplated:

#### ORGANIZATION AND DIRECTION OF THE WORK (APR 1984)

(a) When this contract is executed, the Contractor shall submit to the Contracting Officer a chart showing the general executive and administrative organization, the personnel to be employed in connection with the work under this contract, and their respective duties. The Contractor shall keep the data furnished current by supplementing it as additional information becomes available.

(b) Work performance under this contract shall be under the full-time resident direction of: (1) the Contractor, if the Contractor is an individual; (2) one or more principal partners, if the Contractor is a partnership; or (3) one or more senior officers, if Contractor is a corporation, association, or similar legal entity. However, if the Contracting Officer approves, the Contractor may be represented in the direction of the work by a specific person or persons holding positions other than those identified in this paragraph.

(End of clause)

#### 52.236-20 [Reserved]

#### 52.236-21 Specifications and Drawings for Construction.

As prescribed in 36.521, insert the following clause:

##### SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (FEB 1997)

(a) The Contractor shall keep on the work site a copy of the drawings and specifications and shall at all times give the Contracting Officer access thereto. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications, shall be of like effect as if shown or mentioned in both. In case of difference between drawings and specifications, the specifications shall govern. In case of discrepancy in the figures, in the drawings, or in the specifications, the matter shall be promptly submitted to the Contracting Officer, who shall promptly make a determination in writing. Any adjustment by the Contractor without such a determination shall be at its own risk and expense. The Contracting Officer shall furnish from time to time such detailed drawings and other information as considered necessary, unless otherwise provided.

(b) Wherever in the specifications or upon the drawings the words *directed*, *required*, *ordered*, *designated*, *prescribed*, or words of like import are used, it shall be understood that the *direction*, *requirement*, *order*, *designation*, or *prescription*, of the Contracting Officer is intended and similarly the words *approved*, *acceptable*, *satisfactory*, or words of like import shall mean *approved by*, or *acceptable to*, or *satisfactory to* the Contracting Officer, unless otherwise expressly stated.

(c) Where *as shown*, *as indicated*, *as detailed*, or words of similar import are used, it shall be understood that the reference is made to the drawings accompanying this contract unless stated otherwise. The word *provided* as used herein shall be understood to mean *provide complete in place*, that is *furnished and installed*.

(d) Shop drawings means drawings, submitted to the Government by the Contractor, subcontractor, or any lower tier subcontractor pursuant to a construction contract, showing in detail (1) the proposed fabrication and assembly of structural elements and (2) the installation (i.e., form, fit, and attachment details) of materials or equipment. It includes drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the contractor to explain in detail specific portions of the work required by the contract. The Government may duplicate, use, and dis-

close in any manner and for any purpose shop drawings delivered under this contract.

(e) If this contract requires shop drawings, the Contractor shall coordinate all such drawings, and review them for accuracy, completeness, and compliance with contract requirements and shall indicate its approval thereon as evidence of such coordination and review. Shop drawings submitted to the Contracting Officer without evidence of the Contractor's approval may be returned for resubmission. The Contracting Officer will indicate an approval or disapproval of the shop drawings and if not approved as submitted shall indicate the Government's reasons therefor. Any work done before such approval shall be at the Contractor's risk. Approval by the Contracting Officer shall not relieve the Contractor from responsibility for any errors or omissions in such drawings, nor from responsibility for complying with the requirements of this contract, except with respect to variations described and approved in accordance with (f) below.

(f) If shop drawings show variations from the contract requirements, the Contractor shall describe such variations in writing, separate from the drawings, at the time of submission. If the Contracting Officer approves any such variation, the Contracting Officer shall issue an appropriate contract modification, except that, if the variation is minor or does not involve a change in price or in time of performance, a modification need not be issued.

(g) The Contractor shall submit to the Contracting Officer for approval four copies (unless otherwise indicated) of all shop drawings as called for under the various headings of these specifications. Three sets (unless otherwise indicated) of all shop drawings, will be retained by the Contracting Officer and one set will be returned to the Contractor.

(End of clause)

*Alternate I* (APR 1984). When record shop drawings are required and reproducible shop drawings are needed, add the following sentences to paragraph (g) of the basic clause:

Upon completing the work under this contract, the Contractor shall furnish a complete set of all shop drawings as finally approved. These drawings shall show all changes and revisions made up to the time the equipment is completed and accepted.

*Alternate II* (APR 1984). When record shop drawings are required and reproducible shop drawings are not needed, the following sentences shall be added to paragraph (g) of the basic clause: